

Notice of Allowability

Application No.

10/684,534

Examiner

Gary L. Laxton

Applicant(s)

OYAMA ET AL.

Art Unit

2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 02/04/05.
2. ☒ The allowed claim(s) is/are 1-19.
3. ☒ The drawings filed on 04 February 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Gary L. Laxton
Primary Examiner
Art Unit: 2838

5/17/05

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 5; lines 3, 5, and 7, please change the periods (".") to semicolons (";").

Claim 6; lines 3, 5, and 7, please change the periods (".") to semicolons (";").

Allowable Subject Matter

2. Claims 1-19 are allowed.

3. The following is an examiner's statement of reasons for allowance:

Claims 1-4; prior art fails to disclose or suggest, inter alia, an electric power supply having a first regulator; a second regulator which generates a lower voltage than the first regulator; a voltage detection means which outputs an OFF signal when the output voltage of the first regulator drops less than a first set voltage, and output an ON signal when the output voltage of the first regulator rises more than a second set voltage; and a means which stops the voltage

Art Unit: 2838

output from the second regulator when the OFF signal is output from the voltage detection means.

Claims 5 and 7-19; prior art fails to disclose or suggest, inter alia, an electric power supply having a first regulator; a third regulator which converts a first voltage output from the first regulator into a second voltage; a second regulator which converts the first voltage output from the first regulator into a third voltage; a first voltage detection means which outputs an OFF signal when the second voltage output from the third regulator drops to a value less than a first set voltage, and outputs an ON signal when the second voltage output from the third regulator rises more than the second set voltage, and a means which stops the voltage output from the second regulator when an OFF signal is output from the first voltage detection means.

Claim 6; prior art fails to disclose or suggest, inter alia, an electric power supply having a first regulator; a third regulator which converts the second voltage output from the second regulator into a first voltage; a second regulator which converts the second voltage output from the third regulator into a third voltage; a first voltage detection means which outputs an OFF signal when the second voltage output from the third regulator drops to a value less than a first set voltage, and outputs an ON signal when the second voltage output from the third regulator rises to a value more than the second set voltage, and a means which stops the voltage output from the second regulator when an OFF signal is output from the first voltage detection means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

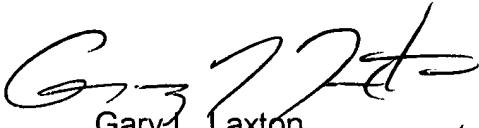
Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,654,264 Rose discloses a system for providing a regulated voltage with high current capability and low quiescent current; US 5,969,512 Matsuyama disclose an output voltage variable power circuit.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary L. Laxton whose telephone number is (571) 272-2079. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Gary L. Laxton
Primary Examiner
Art Unit 2838
5/17/05